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WHAT IS CLAIMED IS:

1. A mobile communication system including a plurality of base stations, a control station

5 which controls said base stations, and switching apparatuses each of which corresponds to said base station or said control station, wherein said switching apparatuses are connected with each other by a wireless circuit or an optical fiber circuit, said switching apparatus corresponding to a base station or a control station in a sending side comprising:

a modulation part for modulating a first signal into a second signal of a unified transmission form;

a first switching part for switching an output destination of said second signal from said modulation part according to a sending destination of said second signal; and

a wireless signal transmission part for sending said second signal from said first switching part to a base station or a control station in a receiving side via a wireless circuit;

an optical signal transmission part for sending said second signal from said first switching part to a base station or a control station in a receiving side via an optical fiber circuit,

said switching apparatus corresponding to a base station or a control station in a receiving side comprising:

a wireless signal receiving part for receiving a third signal via a wireless circuit; an optical signal receiving part for receiving a third signal via an optical fiber

35 circuit; and

a demodulation part for demodulating said third signal.

- 2. The mobile communication system as claimed in claim 1, said switching apparatus corresponding to a base station or a control station in a sending side further comprising:
- a frequency control part for controlling a 10 frequency of said second signal output from said modulation part according to said sending destination;

wherein said first switching part switches said output destination according to said frequency of said second signal.

- 3. The mobile communication system as claimed in claim 1, said switching apparatus corresponding to a base station or a control station in a sending side further comprising:
- a variable directional antenna for sending 25 said second signal from said wireless signal transmission part to a destination via said wireless circuit; and

a beam forming part for directing said variable directional antenna to an antenna of a base station or a control station in a receiving side according to said frequency of said second signal.

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^{4.} The mobile communication system as claimed in claim 2, said switching apparatus

corresponding to a base station or a control station in a sending side further comprising:

a variable directional antenna for sending said second signal from said wireless signal transmission part to a destination via said wireless circuit; and

a beam forming part for directing said variable directional antenna to an antenna of a base station or a control station in a receiving side according to said frequency of said second signal.

- 5. The mobile communication system as claimed in claim 1, said switching apparatus corresponding to a base station or a control station in a receiving side further comprising a second switching part for switching an output destination of said third signal to a demodulation part.
- 6. The mobile communication system as claimed in claim 5, wherein said second switching part switches said output destination of said third signal according to a frequency of said third signal.

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7. The mobile communication system as claimed in claim 1, said switching apparatus

35 corresponding to a base station or a control station in a receiving side further comprising a selection part for selecting a fourth signal and outputting

said fourth signal to said demodulation part when a plurality of signals are received.

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8. The mobile communication system as claimed in claim 1, said switching apparatus corresponding to a base station or a control station in a receiving side further comprising a frequency control part for controlling said demodulation part such that said demodulation part can demodulate said third signal according to a frequency of said third signal.

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9. The mobile communication system as
claimed in claim 1, said switching apparatus
corresponding to a base station or a control station
in a receiving side further comprising:

a variable directional antenna for receiving said third signal from said wireless circuit and outputting said third signal to said wireless signal receiving part;

a beam forming part for directing said variable directional antenna to an antenna of a base station or a control apparatus in a sending side.

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10. The mobile communication system as
35 claimed in claim 9, wherein said beam forming part
directs said variable directional antenna to an
antenna according to a frequency of said third

signal.

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11. A switching apparatus in a mobile communication system including a plurality of base stations and a control station which controls said base stations, each of said base stations and said control station having said switching apparatus, said switching apparatus being connected to another switching apparatus via a wireless circuit or an optical fiber circuit, said switching apparatus comprising:

a modulation part for modulating a first signal into a second signal of a unified transmission form;

a first switching part for switching an output destination of said second signal from said modulation part according to a sending destination of said second signal; and

a wireless signal transmission part for sending said second signal from said first switching part to a base station or a control station in a

25 receiving side via a wireless circuit; and

an optical signal transmission part for sending said second signal from said first switching part to a base station or a control station in a receiving side via an optical fiber circuit.

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12. The switching apparatus as claimed in claim 11, further comprising:

a frequency control part for controlling a frequency of said second signal output from said

modulation part according to said sending destination;

wherein said first switching part switches said output destination according to said frequency of said second signal.

13. The switching apparatus as claimed in claim 11, further comprising:

a variable directional antenna for sending said second signal from said wireless signal transmission part to a destination via said wireless circuit; and

a beam forming part for directing said variable directional antenna to an antenna of a base station or a control station in a receiving side.

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- 14. The switching apparatus as claimed in claim 12, further comprising:
- a variable directional antenna for sending said second signal from said wireless signal transmission part to a destination via said wireless circuit; and
- a beam forming part for directing said
 30 variable directional antenna to an antenna of a base
 station or a control station in a receiving side
 according to said frequency of said second signal.

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communication system including a plurality of base stations and a control station which controls said base stations, each of said base stations and said control station having said switching apparatus, said switching apparatus being connected to another switching apparatus via a wireless circuit or an optical fiber circuit, said switching apparatus comprising:

a wireless signal receiving part for
receiving a first signal via a wireless circuit;
an optical signal receiving part for
receiving a first signal via an optical fiber
circuit; and

a demodulation part for demodulating said 15 first signal.

16. The switching apparatus as claimed in claim 15, further comprising a switching part for switching an output destination of said first signal to a demodulation part.

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17. The switching apparatus as claimed in claim 16, wherein said switching part switches said output destination of said first signal according to a frequency of said first signal.

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18. The switching apparatus as claimed in claim 15, further comprising a selection part for

selecting a second signal and outputting said second signal to said demodulation part when a plurality of signals are received.

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19. The switching apparatus as claimed in claim 15, further comprising a frequency control part for controlling said demodulation part such that said demodulation part can demodulate said first signal according to a frequency of said first signal.

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20. The switching apparatus as claimed in claim 15, further comprising:

a variable directional antenna for receiving said first signal from said wireless circuit and outputting said first signal to said wireless signal receiving part;

a beam forming part for directing said
25 variable directional antenna to an antenna of a base station or a control apparatus in a sending side.

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21. The switching apparatus as claimed in claim 20, wherein said beam forming part directs said variable directional antenna to an antenna according to a frequency of said first signal.

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